

## Abstract

A magnetoresistive layer system (5) is proposed, in an environment of a magnetoresistive layer stack (14) that works particularly on the basis of the GMR effect or the AMR effect, a layer array (15) being provided which generates a magnetic field which acts upon the magnetoresistive layer stack (14), and the layer array (15) having at least one hard magnetic layer (12) and at least one soft magnetic layer (13). Furthermore, a sensor element is proposed, particularly for the detection of magnetic fields with respect to their strength and/or direction, having such a layer system (5).

10 Figure 2